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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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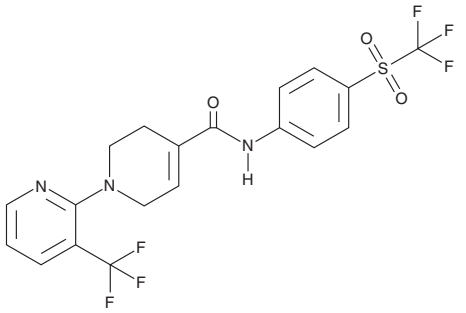
PRODUCT INFORMATION

A-784168

Item No. 32855

CAS Registry No.:	824982-41-4
Formal Name:	3,6-dihydro-3′-(trifluoromethyl)-N-[4-[(trifluoromethyl)sulfonyl]phenyl]-[1(2H),2′-bipyridine]-4-carboxamide
MF:	$C_{19}H_{15}F_6N_3O_3S$
FW:	479.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

A-784168 is supplied as a solid. A stock solution may be made by dissolving the A-784168 in the solvent of choice, which should be purged with an inert gas. A-784168 is soluble in the organic solvent DMSO at a concentration of approximately 40 mg/ml.

Description

A-784168 is a transient receptor potential vanilloid 1 (TRPV1) competitive antagonist.[1] It inhibits capsaicin-induced activation of TRPV1 in 1321N1 cells expressing TRPV1 (IC_{50} = 25 nM for the human receptor). A-784168 is selective for TRPV1 over a panel of 74 neurotransmitter receptors, ion channels, and other TRP channels at 50 µM but does act as an antagonist at TRP melastatin 8 (TRPM8; IC_{50} = 20.8 µM). It also inhibits TRPV1 activation induced by mildly acidic conditions, N-arachidonoyl dopamine (NADA; Item No. 90057), or anandamide (Item No. 90050) in HEK293 cells (IC_{50}s = 14, 33.7, and 35.1 nM, respectively). It inhibits capsaicin-induced currents in primary rat dorsal root ganglion neurons (IC_{50} = 10 nM). A-784168 (200 µmol/kg) inhibits thermal hypersensitivity and mechanical hypersensitivity induced by NGF in rats.[2]

References

1. Cui, M., Honore, P., Zhong, C., *et al.* TRPV1 receptors in the CNS play a key role in broad-spectrum analgesia of TRPV1 antagonists. *J. Neurosci.* **26(37)**, 9385-9393 (2006).
2. Mills, C.D., Nguyen, T., Tanga, F.Y., *et al.* Characterization of nerve growth factor-induced mechanical and thermal hypersensitivity in rats. *Eur. J. Pain* **17(4)**, 469-479 (2012).

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